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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

QP-200 SERIES

Jameco Part Number 213735
(QP-200D)

.LOW COST, HIGH RELIABILITY
.105° C OUTPUT CAPACITOR
.INTERNATIONAL AC INPUT RANGE
.HIGH EFFICIENCY, LOW WORKING TEMPERATURE
.SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED
.CH4:± POLARITY IS SELECTABLE
.BUILT IN REMOTE SENSE CH1,CH2
.POWER GOOD AND FAIL SIGNAL(OPTION)

MODEL	QP-200D				QP-200F				QP-200-3A			
SPECIFICATION	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC OUTPUT VOLTAGE	5V	12V	24V	-12V	5V	15V	24V	-15V	5V	3.3V	12V	-5V
OUTPUT V. TOLERANCE	±3%	±3%	+10, -6%	±6%	±3%	±3%	+10, -6%	±6%	±3%	±3%	+8, -10%	±6%
OUTPUT RATED CURRENT	15A	4A	3A	0.7A	15A	3A	3A	0.7A	15A	15A	6A	0.7A
OUTPUT CURRENT RANGE	3-20A	0-6A	0.4-5A	0-1A	3-20A	0-5A	0.4-5A	0-1A	3-20A	0-20A	0.5-8A	0-1A
PEAK CURRENT	20A	7A	6A	1A	20A	6A	6A	1A	20A	20A	8A	1A
RIPPLE & NOISE (p-p)	100mV	150mV	150mV	150mV	100mV	150mV	150mV	150mV	100mV	100mV	150mV	150mV
LINE REGULATION	±1%	±1%	±2%	±1%	±1%	±1%	±2%	±1%	±1%	±1%	±2%	±1%
LOAD REGULATION	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%
DC OUTPUT POWER	203.4W				202.5W				200W			
EFFICIENCY	75%				75%				72%			
DC VOLTAGE ADJ.	CH1,2:+10,-5%											
INPUT VOLTAGE RANGE	90~264VAC 47~63Hz; 120~370VDC											
AC CURRENT	3.5A/115V 2A/230V											
INRUSH CURRENT	COLD START 45A											
LEAKAGE CURRENT	<2mA/240VAC											
OVERLOAD PROTECTION	105% ~150% RESET:AUTO RECOVERY											
OVER VOLTAGE PROTECTION	CH1:5.75~6.75V CH2:13.8~16.2V				CH1:5.75~6.75V CH2:17.25~20.25V				CH1:5.75~6.75V CH2:3.8~4.4V			
OVER TEMP. PROTECTION	95° C~±5° C (TSW1)TYPE:SHUTDOWN RESET:AUTO RECOVERY											
TEMP. COEFFICIENT	±0.03% / ° C (0~50° C)											
SETUP, RISE, HOLD UP TIME	800ms, 50ms, 16ms											
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC											
OUTPUT GOOD/INPUT POWER FAIL (OPTION)	10ms/1ms											
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES											
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC											
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms											
WORKING TEMP., HUMIDITY	-10° C~+60° C(REFER TO OUTPUT DERATING CURVE), 20% ~90% RH											
STORAGE TEMP., HUMIDITY	-20° C~+85° C, 10% ~95% RH											
DIMENSION	(230*115*50mm) CASE:912											
WEIGHT	1.1Kgs											
SAFETY STANDARDS	MEET UL1950, TUV EN60950											
EMC STANDARDS	MEET EN55022 (CISPR22) CLASS B, EN50082,EN55024											

NOTE :
1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25° C 70% RH. AMBIENT.
2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.PEAK CURRENT CAN NOT EXCEED 30 SEC.
4.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
5.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
6.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
7.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TATAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.

2001-05-11

NEXT (MECHANICAL INFO)

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.POWER GOOD AND FAIL SIGNAL(OPTION)

MODEL / SPECIFICATION	QP-200-3B				QP-200-3C				QP-200-3D			
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC OUTPUT VOLTAGE	5V	3.3V	12V	-12V	5V	3.3V	15V	-15V	5V	3.3V	24V	-12V
OUTPUT V. TOLERANCE	±3%	±3%	+8, -10%	±6%	±3%	±3%	+10, -6%	±6%	±3%	±3%	+10, -6%	±6%
OUTPUT RATED CURRENT	15A	15A	6A	0.7A	15A	15A	5A	0.7A	10A	15A	4A	0.7A
OUTPUT CURRENT RANGE	3-20A	0-20A	0.5-8A	0-1A	3-20A	0-20A	0.5-6A	0-1A	3-15A	0-20A	0.4-5A	0-1A
PEAK CURRENT	20A	20A	8A	1A	20A	20A	7A	1A	20A	20A	6A	1A
RIPPLE & NOISE (p-p)	100mV	100mV	150mV	150mV	100mV	100mV	150mV	150mV	100mV	100mV	150mV	150mV
LINE REGULATION	±1%	±1%	±2%	±1%	±1%	±1%	±2%	±1%	±1%	±1%	±2%	±1%
LOAD REGULATION	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%
DC OUTPUT POWER	204.9W				210W				203.9W			
EFFICIENCY	72%				72%				74%			
DC VOLTAGE ADJ.	CH1,2:+10,-5%											
INPUT VOLTAGE RANGE	90~264VAC 47~63Hz; 120~370VDC											
AC CURRENT	3.5A/115V 2A/230V											
INRUSH CURRENT	COLD START 45A											
LEAKAGE CURRENT	<2mA/240VAC											
OVERLOAD PROTECTION	105%~150% RESET:AUTO RECOVERY											
OVER VOLTAGE PROTECTION	CH1:5.75~6.75V, CH2: 3.8~4.4V											
OVER TEMP. PROTECTION	95° C~±5° C (TSW1)TYPE:SHUTDOWN RESET:AUTO RECOVERY											
TEMP. COEFFICIENT	±0.03% / ° C (0~50° C)											
SETUP, RISE, HOLD UP TIME	800ms, 50ms, 16ms											
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC											
OUTPUT GOOD/INPUT POWER FAIL(OPTION)	10ms/1ms											
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES											
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC											
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms											
WORKING TEMP., HUMIDITY	-10° C~+60° C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH											
STORAGE TEMP., HUMIDITY	-20° C~+85° C, 10%~95% RH											
DIMENSION	(230*115*50mm) CASE:912											
WEIGHT	1.1Kgs											
SAFETY STANDARDS	MEET UL1950, TUV EN60950											
EMC STANDARDS	MEET EN55022 (CISPR22) CLASS B, EN50082,EN55024											

NOTE :
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25° C 70% RH. AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. PEAK CURRENT CAN NOT EXCEED 30 SEC.
4. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
5. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
6. LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
7. EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TATAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.

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MODEL / SPECIFICATION	QP-200-3E			
	CH1	CH2	CH3	CH4
DC OUTPUT VOLTAGE	5V	3.3V	24V	-15V
OUTPUT V. TOLERANCE	±3%	±3%	+10, -6%	±6%
OUTPUT RATED CURRENT	10A	15A	4A	0.7A
OUTPUT CURRENT RANGE	3-15A	0-20A	0.4-5A	0-1A
PEAK CURRENT	20A	20A	6A	1A
RIPPLE & NOISE (p-p)	100mV	100mV	150mV	150mV
LINE REGULATION	±1%	±1%	±2%	±1%
LOAD REGULATION	±2%	±2%	±6%	±2%
DC OUTPUT POWER	206W			
EFFICIENCY	74%			
DC VOLTAGE ADJ.	CH1,2:+10,-5%			
INPUT VOLTAGE RANGE	90~264VAC 47~63Hz; 120~370VDC			
AC CURRENT	3.5A/115V 2A/230V			
INRUSH CURRENT	COLD START 45A			
LEAKAGE CURRENT	<2mA/240VAC			
OVERLOAD PROTECTION	105%~150% RESET:AUTO RECOVERY			
OVER VOLTAGE PROTECTION	CH1:5.75~6.75V, CH2:3.8~4.4V			
OVER TEMP. PROTECTION	95° C~±5° C (TSW1)TYPE:SHUTDOWN RESET:AUTO RECOVERY			
TEMP. COEFFICIENT	±0.03% /° C (0~50° C)			
SETUP, RISE, HOLD UP TIME	800ms, 50ms, 16ms			
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC			
OUTPUT GOOD/INPUT POWER FAIL(OPTION)	10ms/1ms			
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES			
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms			
WORKING TEMP., HUMIDITY	-10° C~+60° C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH			
STORAGE TEMP., HUMIDITY	-20° C~+85° C, 10%~95% RH			
DIMENSION	(230*115*50mm) CASE:912			
WEIGHT	1.1Kgs			
SAFETY STANDARDS	MEET UL1950, TUV EN60950			
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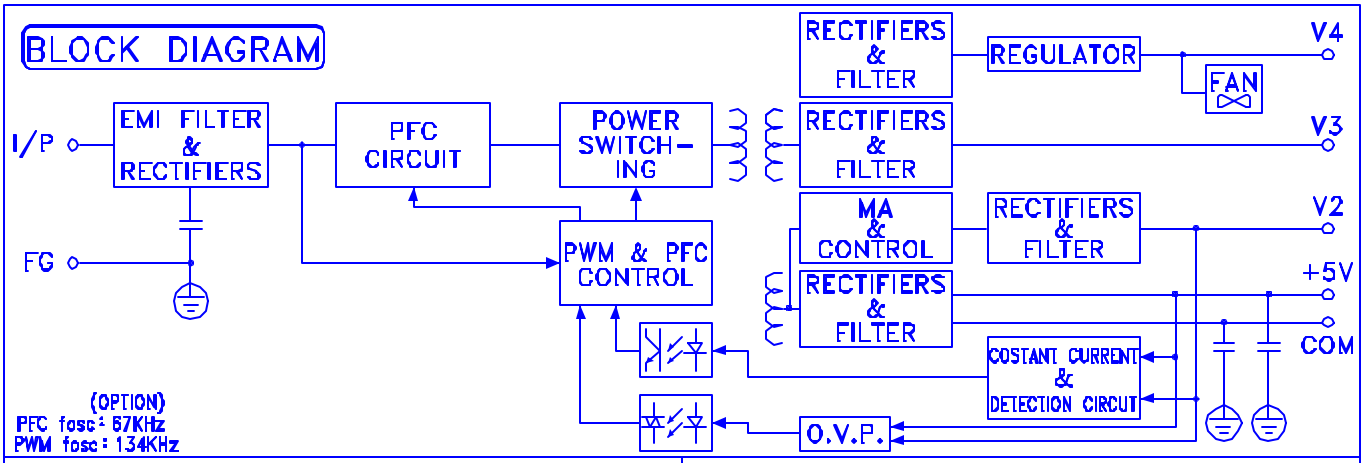
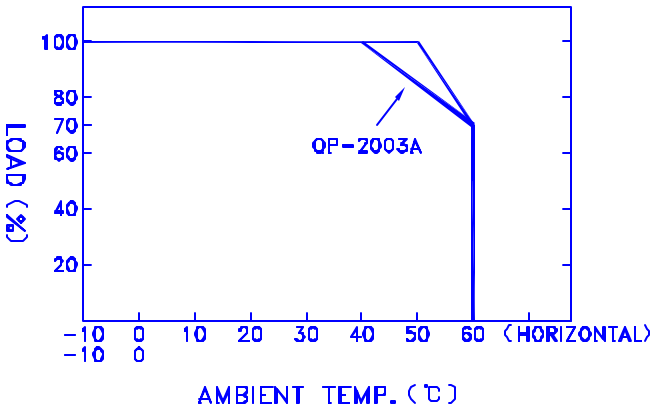
QP-200 SERIES

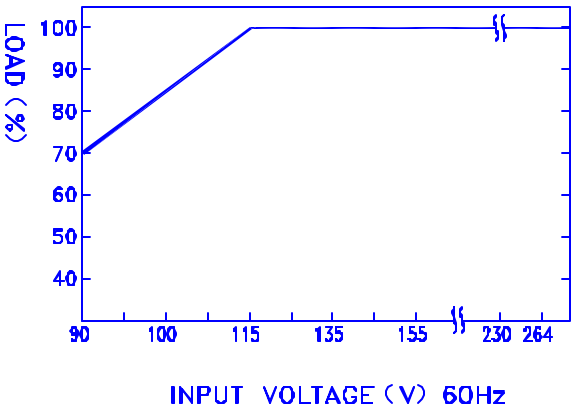
BLOCK DIAGRAM



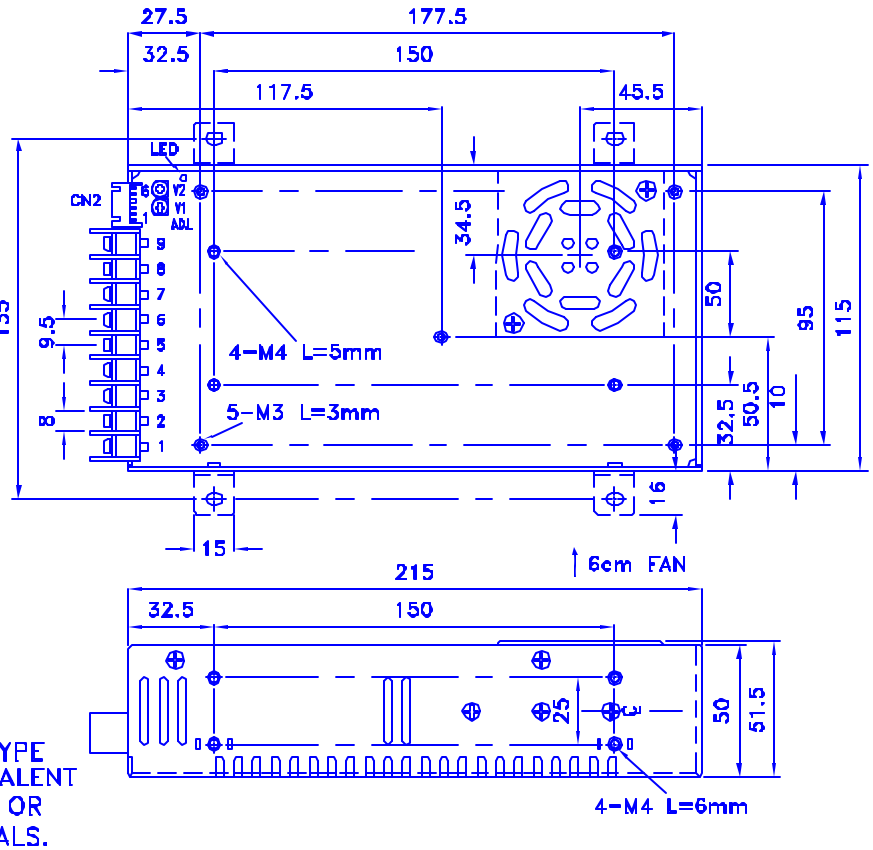
OUTPUT DERATING VS Ta



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)



- ☒ CASE : 912
- ☒ TERMINAL PIN NO. ASSIGNMENT
  - ☒ PIN 1,2 : AC INPUT
  - ☒ PIN 3 : FG ⏚
  - ☒ PIN 4 : DC OUTPUT V4
  - ☒ PIN 5 : DC OUTPUT V3
  - ☒ PIN 6 : DC OUTPUT V1
  - ☒ PIN 7,8 : DC OUTPUT COM
  - ☒ PIN 9 : DC OUTPUT V2
- ☒ TERMINAL PIN NO. ASSIGNMENT
  - ☒ CN2: JST S 6B-XH-A-1
  - ☒ PIN 1 : V1 (+S)
  - ☒ PIN 2 : V1 (-S)
  - ☒ PIN 3 : V2 (+S)
  - ☒ PIN 4 : V2 (-S)
  - ☒ PIN 5 : PF/PG
  - ☒ PIN 6 : G
- ☒ MATING CONNECTORS
  - ☒ CN2 MATING CONNECTOR TYPE JST XHP SERIES OR EQUIVALENT WITH JST SXH-001T-P0.6 OR EQUIVALENT CRIMP TERMINALS.